

**AMENDMENTS TO THE CLAIMS**

Please amend claims 29 and 30, as indicated below.

1-17. (Canceled)

18. (Previously presented) A method for positioning and fixing an orthodontic element on a surface, comprising:

- (a) mounting the element on a positioning device having an image acquisition unit mounted thereon such that said element is in the field of view of said unit;
- (b) bringing the element into proximity of the surface while continuously capturing an image of the element and of the surface;
- (c) transmitting the image or its representation to a display for displaying a real-life image of the captured image or representation together with indicators providing guidance information on intended position of the orthodontic element on the surface, said indicators consisting of a target sign marking the point of proper position of the orthodontic element superimposed on the real-life image;
- (d) positioning the element on a surface according to said indicators such that the element's position coincides with the intended position; and
- (e) fixing the element onto the surface.

19. (Previously presented) A method according to Claim 18, wherein said element is fixed such that it is in a fixed position of the acquired image.

20. (Previously presented) A method according to Claim 18, wherein said element is an orthodontic bracket.

21. (Previously presented) A method for positioning and fixing an orthodontic element on a surface, comprising:

- (a) mounting the element on a positioning device having an image acquisition unit mounted thereon such that said element is in the field of view of said unit;
- (b) bringing the element into proximity of the surface while continuously monitoring the element by an image acquisition unit which captures an image of the element and its surrounding and transmits this image to a screen;
- (c) displaying on a screen
  - i. said image,
  - ii. guidance information relating to a proper position of the element on said surface, said guidance information consisting of a target sign marking the point of proper position of the orthodontic element superimposed on the real-life image;
- (d) in case of a discrepancy between actual position of said element, being the position of the element viewed on the screen, and said proper position, correcting the actual position to match said proper position; and
- (e) fixing the element onto the surface.

22. (Previously presented) A method according to Claim 21, wherein the element is displayed in the center of the image displayed on the screen.

23. (Previously presented) A method for positioning and fixing an orthodontic element on a surface, comprising:

- (a) placing the element on the surface;
- (b) by the use of a positioning device having an image acquisition unit mounted thereon such that said element is

in the field of view of said unit, continuously capturing an image of the element and of the surface;

- (c) transmitting the image or its representation to a display for displaying a real-life image of the captured image or representation together with indicators providing guidance information on intended position of the orthodontic element on the surface, said indicators consisting of a target sign marking the point of proper position of the orthodontic element superimposed on the real-life image;
- (d) positioning the element on a surface according to said indicators such that the element's position coincides with the intended position; and
- (e) fixing the element onto the surface.

24. (Previously presented) A method according to Claim 23, wherein said element is fixed such that it is in a fixed position of the acquired image.

25. (Previously presented) A method according to Claim 23, wherein said element is an orthodontic bracket.

26. (Previously presented) A method for positioning and fixing an orthodontic element on a surface, comprising:

- (a) placing the element on the surface;
- (b) by the use of a positioning device having an image acquisition unit mounted thereon such that said element is in the field of view of said unit, continuously monitoring the element by an image acquisition unit which captures an image of the element and its surrounding and transmits this image to a screen;
- (c) displaying on a screen
  - i. said image,

- ii. guidance information relating to a proper position of the element on said surface, said guidance information consisting of a target sign marking the point of proper position of the orthodontic element superimposed on the real-life image;
- (d) in case of a discrepancy between actual position of said element, being the position of the element viewed on the screen, and said proper position, correcting the actual position to match said proper position; and
- (e) fixing the element onto the surface.

27. (Previously presented) A method according to Claim 26, wherein the element is displayed in the center of the image displayed on the screen.

28. (Previously presented) A method according to Claim 27 wherein said step (d) further comprising, in case of a match between actual position of said element, being the position of the element viewed on the screen, and said proper position, indicating that the proper position is achieved.

29. (Currently amended) A method for orthodontic treatment, comprising:

- determining through a processor means a proper position of an orthodontic element on a surface; and
- capturing an image of the element through an image acquisition unit and displaying an image or representation of the element on a display together with guidance information on proper position of the element on the surface and positioning said element on the surface with the aid of said guidance information,

wherein said guidance information is corrected as the position of the element changes with respect to said surface.

30. (Currently amended) A system for positioning of an orthodontic element or a marking device having a marking member for marking a position for subsequent placement of an orthodontic element on a surface, comprising:

a device for steering an orthodontic element while positioning said element onto said surface or for marking said position on said surface by means of a marking member;

an image acquisition unit for capturing an image of the surface or of said element, and an image of both once the surface and said element are proximal to one another, said image acquisition unit being mounted on said device such that said element or said marking member is in the field of view of said unit;

an image grabber coupled to said image acquisition unit for receiving the image captured by the image acquisition unit and transmitting an image or a representation thereof to a display unit;

and a display unit, coupled to the image grabber, for displaying said image or representation.

31. (Previously presented) A system according to Claim 30 comprising a module coupled to the display unit, for displaying markings providing guidance information on the surface, superimposed on said image or representation.

32. (Previously presented) A system according to Claim 31, wherein said markings constitute of a virtual image of either at least one surface, the orthodontic element or both.

33. (Previously presented) A system according to Claim 32,  
wherein said virtual image comprises a boundary's representation.

34-37. (Canceled)